

FIGURE 1

```

graph TD
    200[RECEIVE MESSAGE GENERATION COMMAND 200] --> 204[CAPTURE MULTIMEDIA INFORMATION 204]
    204 --> 208[GENERATE MESSAGE FORM 208]
    208 --> 212[CREATE COMPOSITE MESSAGE 212]
    212 --> 216[SEND COMPOSITE MESSAGE 216]

```

FIGURE 2

# Dealing with the "Big Data" Challenge

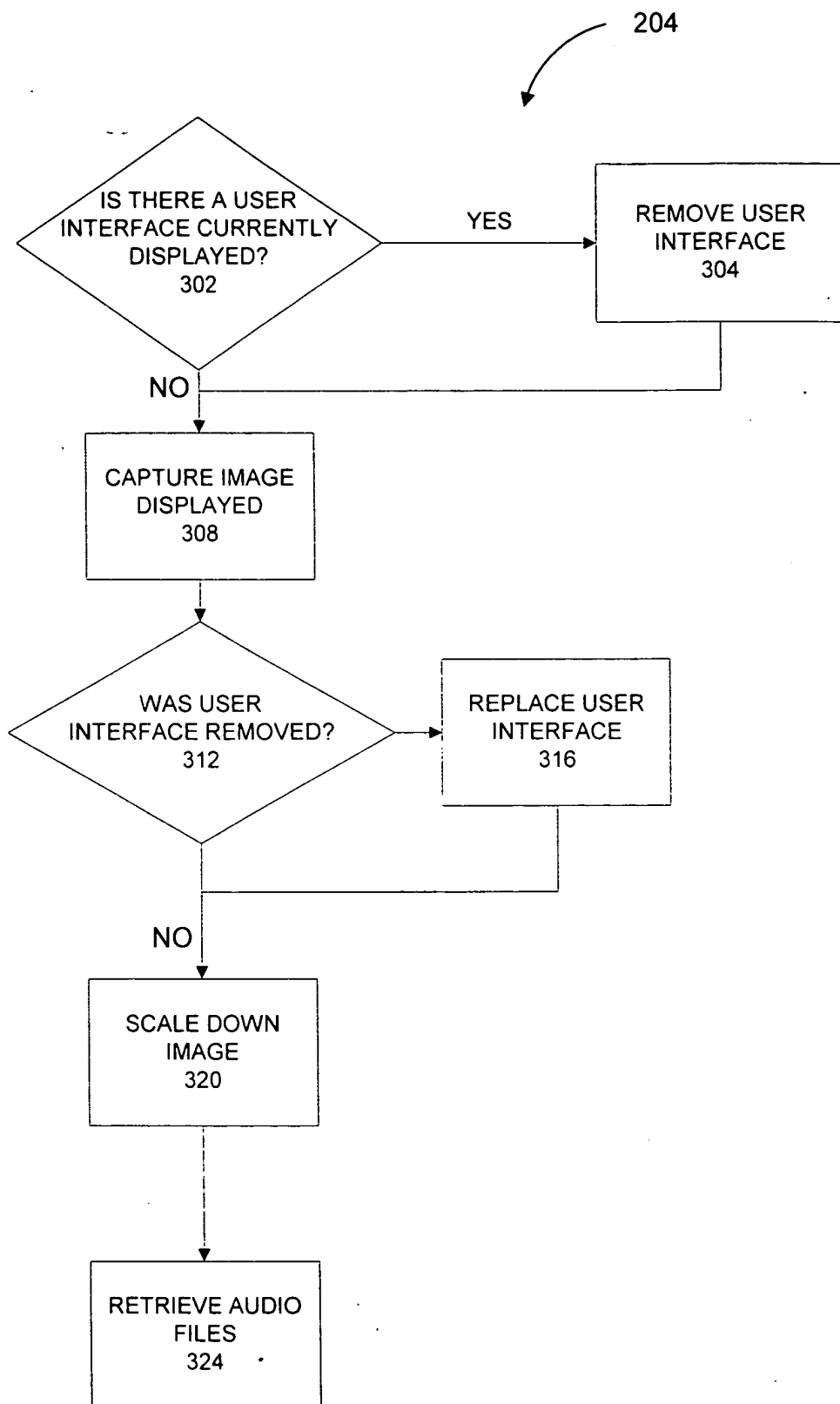


FIGURE 3a

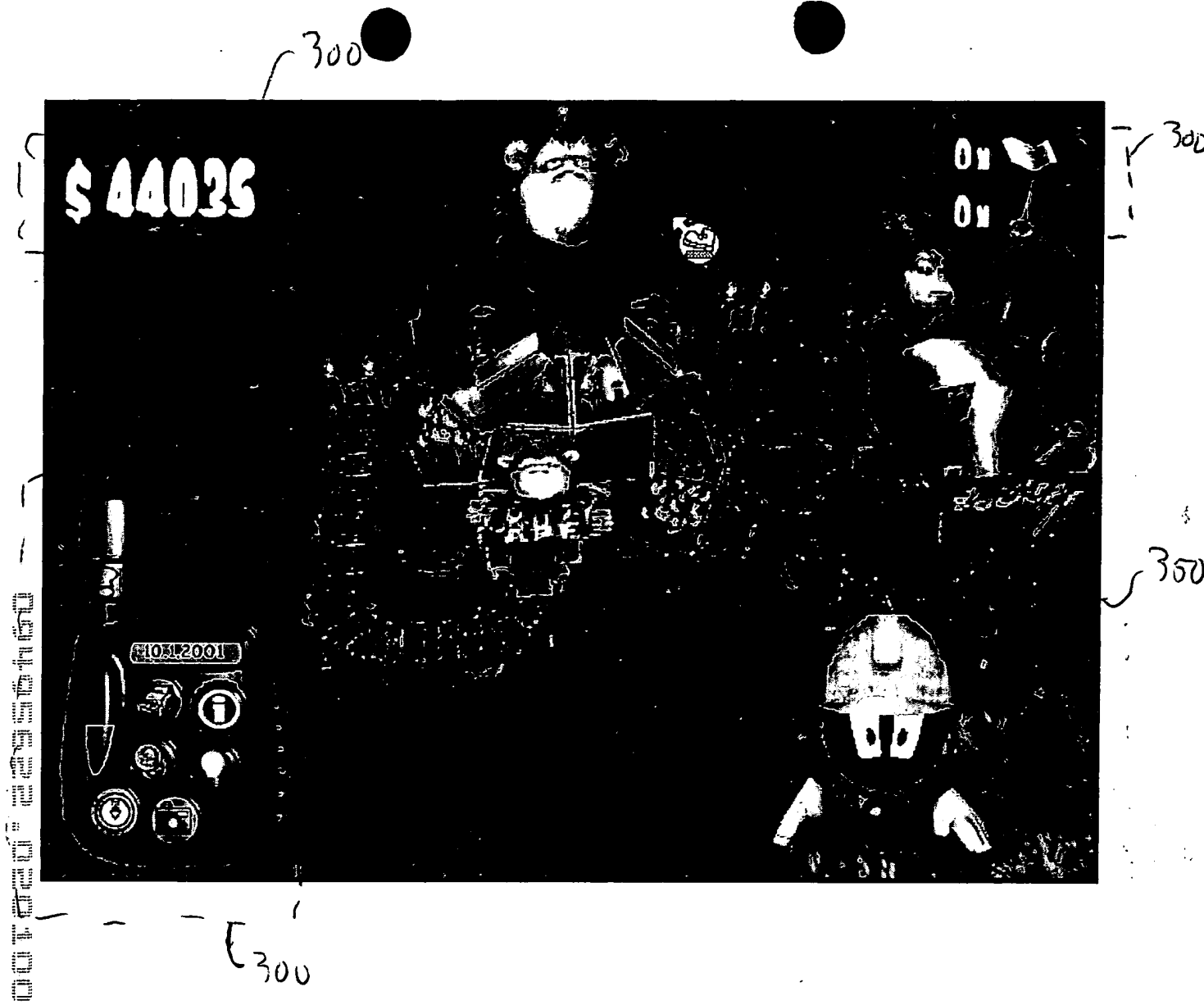


Figure 3b



1. The first part of the document is a list of names and their corresponding page numbers. The names are listed in a single column, and the page numbers are listed in a single column to the right of the names. The names are: "The first part of the document is a list of names and their corresponding page numbers."

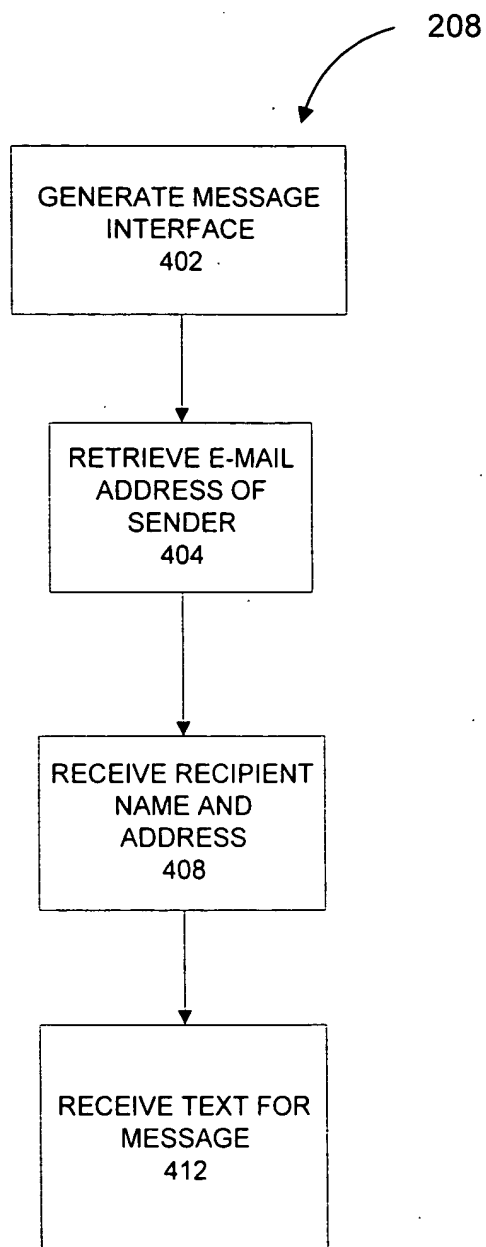


FIGURE 4a

Year	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972
Population	1,000,000	1,050,000	1,100,000	1,150,000	1,200,000	1,250,000	1,300,000	1,350,000	1,400,000	1,450,000	1,500,000	1,550,000	1,600,000
Area (sq. miles)	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
Population density (per sq. mile)	100	105	110	115	120	125	130	135	140	145	150	155	160



4.20

416

424

[illegible]



**THE** **NEW** **YORK** **PUBLIC** **LIBRARY**

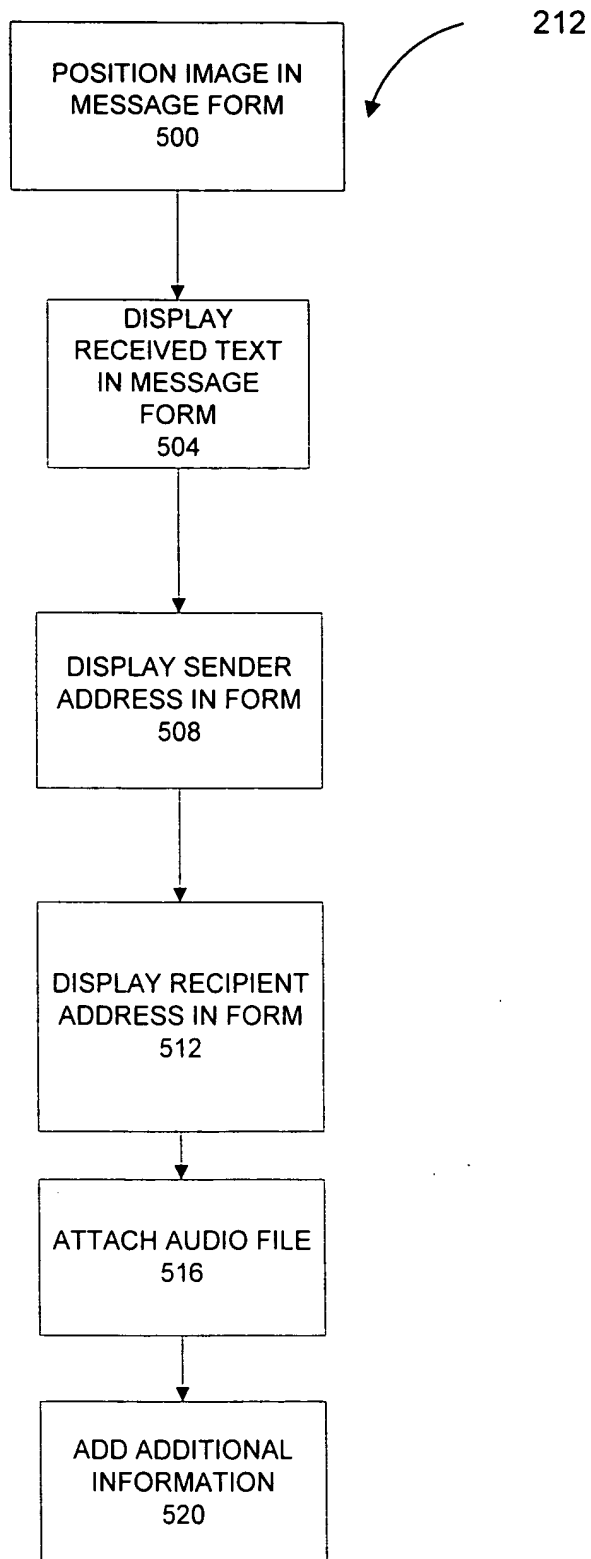


FIGURE 5

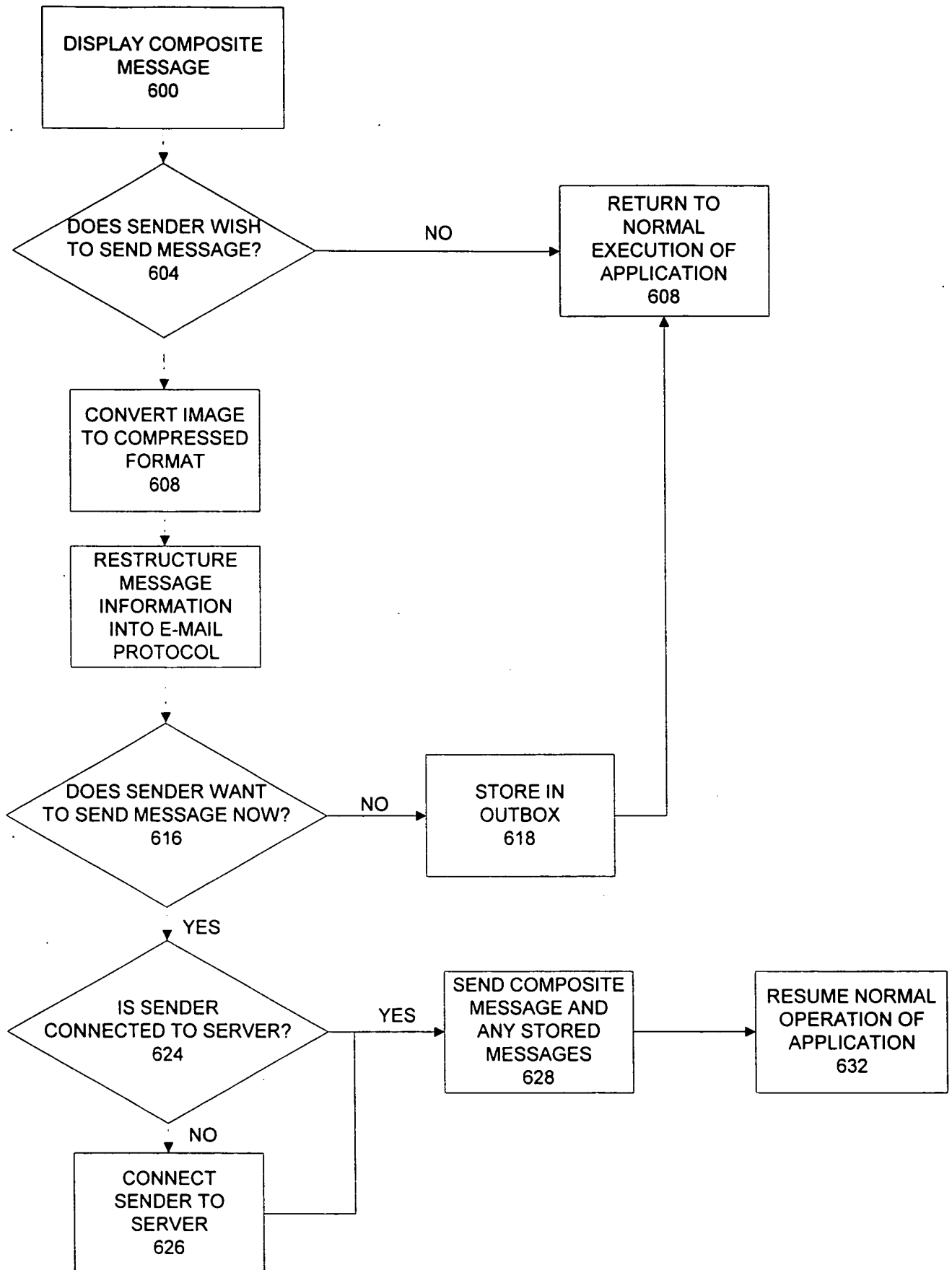


FIGURE 6



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graph TD
    800[TRANSMIT MESSAGE  
TO A THIRD PARTY  
SERVER  
800] --> 804[LOG IN EMAIL  
ADDRESS OF  
MESSAGE  
804]
    804 --> 808[COMPARE  
RECIPIENT  
INFORMATION TO  
DATABASE  
808]
    808 --> 812{IS RECIPIENT A  
REGISTERED OWNER?  
812}
    812 -- YES --> 820[TAKE NO ACTION  
820]
    812 -- NO --> 816[SEND  
ADVERTISEMENT  
TO RECIPIENT  
816]
  
```

FIGURE 8